

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., August 31, 1916.

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1916.]

HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, Service and Regulatory Announcements, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

An increasing number of requests for publications is being received daily in this division with incomplete addresses. Many correspondents fail to sign their names. Some do not give post-office address. Persons living in large cities fail to furnish the street address; and some give as the post-office address the name of an office that has been discontinued for years. The department is unable to handle correspondence unless the signature is legible and the post-office address given in full, with street number or rural route number, as the case may be. Correspondents are therefore earnestly requested to see that the complete address is given in all communications addressed to this department.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

Waste Land and Wasted Land on Farms. By James S. Ball, Assistant in Farm Accounting. Pp. 18, figs. 12. Contribution from the Office of Farm Management. Aug. 15, 1916. (**Farmers' Bulletin 745.**)

The results of this study, based on area records from 1,703 farms distributed throughout nine States, serve to call attention to the fact that there are certain portions of any farm which contribute nothing to the farm income, and to suggest various ways through which more or less of such nonproductive land may be reclaimed on the average farm.

Grains for the Montana Dry Lands. By N. C. Donaldson, Scientific Assistant, Office of Cereal Investigations. Pp. 23, figs. 11. Contribution from the Bureau of Plant Industry. Aug. 12, 1916. (**Farmers' Bulletin 719.**)
Of interest to farmers and prospective settlers in Montana.

Peanut Oil. By H. C. Thompson, Horticulturist, Office of Horticultural and Pomological Investigations, Bureau of Plant Industry, and H. S. Bailey, Food-Investigation Chemist, Bureau of Chemistry. Pp. 16. Contribution from the Bureau of Plant Industry and the Bureau of Chemistry. Aug. 4, 1916. (**Farmers' Bulletin 751.**)

Will be of interest to owners and managers of oil mills, oil dealers, and business men, and to farmers who are growing or who contemplate growing peanuts.

DEPARTMENT BULLETINS.—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Comparison of the Bacterial Count of Milk With the Sediment or Dirt Test.

By H. C. Campbell, Expert in Milk Hygiene, Pathological Division. Pp. 7, pl. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) June 29, 1916. (**Department Bulletin 361.**) Price, 5 cents.

Of special interest to milk inspectors and pure food officials.

Brick Roads. By Vernon M. Peirce, Chief of Construction, and Charles H. Moorefield, Senior Highway Engineer. Pp. 40, pls. 12, figs. 4. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Aug. 25, 1916. (**Department Bulletin 373.**) Price, 15 cents.

This is a revision of Department Bulletin 246, entitled Vitrified Brick Pavements for Country Roads.

Disadvantages of Selling Cotton in the Seed. By Charles F. Creswell, Scientific Assistant. Pp. 19. Contribution from the Office of Markets and Rural Organization. Aug. 9, 1916. (**Department Bulletin 375.**) Price, 5 cents.

Should be of interest to cotton producers, ginners, and buyers generally.

The Argentine Ant: Distribution and Control in the United States. By Ernest R. Barber, Scientific Assistant, Southern Field Crop Insect Investigations. Pp. 23, figs. 4. Contribution from the Bureau of Entomology. (Professional Paper.) Aug. 18, 1916. (**Department Bulletin 377.**) Price, 5 cents.

Gives life history and habits and methods of control of this insect. Of especial interest to residents of southern States.

Fish Meal: Its Use as a Stock and Poultry Food. By F. C. Weber, Chemist in Charge, Animal Physiological Chemical Laboratory, Bureau of Chemistry. Pp. 21. Contribution from the Bureau of Chemistry and the Bureau of Animal Industry. (Professional Paper.) Aug. 22, 1916. (**Department Bulletin 378.**) Price, 5 cents.

The object of this publication is to set forth the value of fish meal as a feed for domestic animals, in order to stimulate its more general use as a supplementary stock feed and to encourage its manufacture for that purpose.

Dust Explosions and Fires in Grain Separators in the Pacific Northwest. By David J. Price, Engineer in Charge of Grain Dust Explosion Investigations, Bureau of Chemistry, and E. B. McCormick, Chief, Division of Rural Engineering, Office of Public Roads and Rural Engineering. Pp. 22, pls. 11. Contribution from the Bureau of Chemistry and Office of Public Roads and Rural Engineering. Aug. 4, 1916. (**Department Bulletin 379.**) Price, 10 cents.

Gives the nature and causes, and the methods of prevention of dust explosions in separators.

New Sorghum Varieties for the Central and Southern Great Plains. By H. N. Vinall, Agronomist, and R. W. Edwards, Scientific Assistant, Office of Forage-Crop Investigations. Pp. 16, figs. 7. Contribution from the Bureau of Plant Industry. Aug. 15, 1916. (**Department Bulletin 383.**) Price, 5 cents.

Gives description and value for forage of Dwarf Hegari, Improved Feterita, Dwarf Feterita, White Milo, and Schrock Kafir.

Lessons on Tomatoes for Rural Schools. By E. A. Miller, Specialist in Agricultural Education. Pp. 18, figs. 5. Contribution from the States Relations Service. (Professional Paper.) Aug. 23, 1916. (**Department Bulletin 392.**) Price, 5 cents.

For the use of teachers in southern rural schools.

Factors Affecting Interest Rates and Other Charges on Short-Time Farm Loans. By C. W. Thompson, Specialist in Rural Organization. Pp. 12, pls. 2. Contribution from the Office of Markets and Rural Organization. Aug. 26, 1916. (**Department Bulletin 409.**) Price, 5 cents.

This bulletin discusses the reasons for variations in interest rates on short-time farm loans, giving special attention to those causes of variation which can be modified by individual or collective action.

Influence of Age on the Value of Dairy Cows and Farm Work Horses. By J. C. McDowell, Agriculturist, Office of Farm Management. Pp. 12, figs. 5. Contribution from the Office of Farm Management, Office of the Secretary. (Professional Paper.) Aug. 24, 1916. (**Department Bulletin 413.**) Price, 5 cents.

This bulletin is of interest to stock-raisers generally.

MISCELLANEOUS.

Important Insects Which May Affect the Health of Men or Animals Engaged in Military Operations. Pp. 24, figs. 15. Prepared by the Bureau of Entomology. Aug. 12, 1916. (**Circular No. 61, Office of the Secretary.**) Price, 5 cents.

Rules and Regulations of the Secretary of Agriculture under the United States Cotton Futures Act of August 11, 1916. (**Circular No. 64, Office of the Secretary.**) Price, 5 cents.

Index to Agricultural Outlook. By Charles H. Greathouse, in Charge of Indexing, Division of Publications. Pp. 71. (1915.)

The Agricultural Outlook superseded the Crop Reporter, and was itself superseded by the Monthly Crop Report. It covered the time between October, 1913, and April, 1915, and was issued as Farmers' Bulletins Nos. 558, 560, 563, 570, 575, 581, 584, 590, 598, 604, 611, 615, 620, 629, 641, 645, 651, 665, and 672. This Index will be useful to those who have kept a file of said bulletins.

SERIALS.

Journal of Agricultural Research. (Issued weekly. For sale only.)

Vol. 6, No. 18. July 31, 1916. Contents: Life Cycles of the Bacteria. By F. Löhnis and N. R. Smith.—A Respiration Calorimeter, Partly Automatic, for the Study of Metabolic Activity of Small Magnitude. By C. F. Langworthy and R. D. Milner. Pp. 675-720, pls. A-G, XCII-XCV, fig. 1. Price, 25 cents.

Same, No. 19. August 7, 1916. Contents: Mottle-Leaf of Citrus Trees in Relation to Soil Conditions. By Lyman J. Briggs, C. A. Jensen, and J. W. McLane.—Vegetative Succession Under Irrigation. By J. Francis Macbride. Pp. 721-759, pls. XCVI-CV, figs. 4. Price, 25 cents.

Same, No. 20. August 14, 1916. Contents: Agricultural Value of Impermeable Seeds. By George T. Harrington.—Mendelism of Short Ears in Sheep. By E. G. Ritzman. Pp. 761-798, pl. 1, figs. 6. Price, 10 cents.

Same, No. 21. August 21, 1916. Contents: Life-History Studies of *Cirphis unipuncta*, the True Army Worm. By John J. Davis and A. F. Satterthwait.—Infection of Timothy by *Puccinia graminis*. By E. C. Stakman and F. J. Piemeisel.—Control of the Powdery Dryrot of Potatoes Caused by *Fusarium trichothecoides*. By O. A. Pratt. Pp. 799-832, pls. CVII-CVIII, figs. 2. Price, 15 cents.

Same, No. 22. August 28, 1916. Contents: Use of the Moisture Equivalent for the Indirect Determination of the Hygroscopic Coefficient. By Frederick J. Alway and Jouette C. Russel.—*Thersilochus conotrachelus*, a Parasite of the Plum Curculio. By R. A. Cushman.—Effect on Plant Growth of Sodium Salts in the Soil. By Frank B. Headley, E. W. Curtis, and C. S. Scofield. Pp. 833-869, pl. CIX, figs. 17. Price, 10 cents.

NOTE.—Beginning with Volume 5, the *Journal of Agricultural Research* will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

Experiment Station Record. Vol. XXXV, No. 1. July, 1916. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

Same, Vol. XXXV, No. 2. August, 1916. Pp. 101-200. Price, 15 cents.



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The Monthly Crop Report. Vol. 2, No. 8, August, 1916. Pp. 73-84. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 110. June, 1916. Pp. 49-60. July 28, 1916.
Price, 5 cents.

Bureau of Animal Industry. No. 111. July, 1916. Pp. 61-65. Aug. 19, 1916.
Price, 5 cents.

Bureau of Biological Survey. No. 10. Regulations for the Protection of Deer, Moose, Caribou, Sheep, and Mountain Goats in Alaska. Pp. 2. Aug. 10, 1916. Price, 5 cents.

Bureau of Biological Survey. No. 11. Regulations for the Protection of Migratory Birds. Pp. 6. Aug. 21, 1916. Price, 5 cents.

Bureau of Chemistry. Supplement No. 17. [Notices of Judgment Nos. 4301-4350.] Pp. 427-504. Aug. 8, 1916. Price, 10 cents.

Federal Horticultural Board. No. 29. June, 1916. Pp. 73-83. Aug. 5, 1916.
Price, 5 cents.

Federal Horticultural Board. No. 30. July, 1916. Pp. 85-92. Aug. 18, 1916.
Price, 5 cents.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Dunklin County, Missouri. By A. T. Sweet and B. W. Tillman, of the U. S. Department of Agriculture, and H. H. Krusekopf, C. E. Deardorff, W. I. Watkins, and E. W. Knoble, of the University of Missouri. Pp. 47, pls. 3, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Wayne County, North Carolina. By B. B. Derrick, of the U. S. Department of Agriculture, In Charge, and S. O. Perkins and F. N. McDowell, of the North Carolina Department of Agriculture. Pp. 51, fig. 1, map. (From F. O. Soils, 1915.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 44, No. 5. [July 29, 1916.] Pp. 243-319, charts 9, figs. 14. Price, 25 cents a copy, \$2.50 a year. Payable to the Superintendent of Documents.

Special articles: Solar and sky radiation measurements during May, 1916. By H. H. Kimball.—Free-air data by means of sounding balloons. Fort Omaha, Nebr., July, 1914. By W. R. Blair.—Meteorological symbols. By C. F. Tatman.—Coefficient of correlation as a measure of relationship. By Chas. N. Moore.—Rainfall in China, 1900-1911. By Co-Ching Chu.—American definition of "sleet." By C. Abbe, jr.—Two abnormal pressure distributions in Italy. By F. Eredia.—Fog as a source of water supply. By W. G. Reed.—Simple wind-velocity indicator. By B. C. Kadel.—Diurnal variation of underground temperature. By S. Sato.—Aleksandr Ivanovich Voeikov, 1842-1916.—The Chinese Weather Bureau. By Co-Ching Chu.

Weather Forecasting in the United States. By a Board Composed of Alfred J. Henry, chairman, Edward H. Bowie, Henry J. Cox, and Harry C. Frankenfield. Pp. 370, figs. 199. 1916. (W. B. No. 583.) Price, 85 cents.

Contains a general description of the science of weather forecasting, and explains the methods and processes used. No copies available for free distribution.

National Weather and Crop Bulletin. Nos. 20, 21, 22, 23, 24. August, 1916, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1916